

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing traffic control signal at the intersection of MD 410 (East-West Highway) and Toledo Terrace/Entrance to Home Depot in Hyattsville, Prince George's County. The modification includes modifying the eastbound and westbound MD 410 left turn phase from Exclusive/Permissive to Exclusive. The modification also includes replacing the interconnect cable from the signal cabinet at Toledo Terrace to the signal cabinet at Editor's Park Drive. MD 410 is assumed to run in an East-West direction.

II. INTERSECTION OPERATION

1. The intersection operates in a NEMA six-phase full-actuated mode, with MD 410 (East-West Highway) approaches running concurrently. Exclusive left-turn phases shall be provided for the eastbound and westbound approaches of MD 410 (East-West Highway). The side street shall continue to run concurrently.

III. APS FUNCTION AS FOLLOWS:

TO CROSS EAST-WEST HIGHWAY

- A. When a pedestrian locates and presses the pushbutton for an extended time, the pushbutton message is "Wait to cross East-West Highway at Toledo Terrace and Home Depot".
- B. When the "WALK" phase begins, the message is a rapid tick, which will last for the duration of the "WALK" phase.

TO CROSS TOLEDO TERRACE

- A. When a pedestrian locates and presses the pushbutton for an extended time, the pushbutton message is "Wait to cross Toledo Terrace at East-West Highway".
- B. When the "WALK" phase begins, the message is a rapid tick, which will last for the duration of the "WALK" phase.

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
PHASE 1+5	←G-	←G-	R	R	←G-	←G-	R	R	R	R	R	R	R	R	DW	DW	DW	DW
CHANGES TO PHASE 1+6, PHASE 2+5, OR PHASE 2+6																		
PHASE 1+6	←G-	←G-	G	G	←R-	←R-	R	R	R	R	R	R	R	R	DW	DW	DW	DW
1 CHANGE	←Y-	←Y-	G	G	←R-	←R-	R	R	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2+5	←R-	←R-	R	R	←G-	←G-	G	G	R	R	R	R	R	R	DW	DW	DW	DW
5 CHANGE	←R-	←R-	R	R	←Y-	←Y-	G	G	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 + 6	←R-	←R-	G	G	←R-	←R-	G	G	R	R	R	R	R	R	WK	WK	DW	DW
PED CLEAR/COUNTDOWN	←R-	←R-	G	G	←R-	←R-	G	G	R	R	R	R	R	R	FL/DW	FL/DW	DW	DW
2 + 6 CHANGE	←R-	←R-	Y	Y	←R-	←R-	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW
PHASE 4 & 8	←R-	←R-	R	R	←R-	←R-	R	R	G	G	G	G	G	G	DW	DW	WK	WK
PED CLEAR/COUNTDOWN	←R-	←R-	R	R	←R-	←R-	R	R	G	G	G	G	G	G	DW	DW	FL/DW	FL/DW
4 & 8 CHANGE	←R-	←R-	R	R	←R-	←R-	R	R	Y	Y	Y	Y	Y	Y	DW	DW	DW	DW
FLASHING OPERATION	FL ←R	FL ←R	FL Y	FL Y	FL ←R	FL ←R	FL Y	FL Y	FL R	FL R	FL R	FL R	FL R	FL R	DARK	DARK	DARK	DARK

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE S.H.A

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
NONE			

B. EQUIPMENT TO BE SUPPLIED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
1001	MAINTENANCE OF TRAFFIC	1	EA
8001	12 INCH LED SIGNAL HEAD SECTION	18	EA
8023	NON-INVASIVE DETECTOR (ANY LENGTH) WITH LEAD-IN CABLE UP TO 1000 FEET	3	EA
8024	REMOVE & DISPOSE OF MATERIAL AND EQUIPMENT (PER ASSIGNMENT)	1	EA
8032	12-PAR COMMUNICATION CABLE, SELF-SUPPORTING, JELLY-FILLED / UNDERGROUND	850	LF
8038	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED	70	LF
8039	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED	80	LF
8058	ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 AWG)	500	LF

C. EQUIPMENT TO BE RETURNED TO THE S.H.A.

NONE
(ALL EQUIPMENT REMOVED SHALL BECOME THE PROPOERTY OF THE CONTRATOR)

CONTACT LIST

DICTRICT 3

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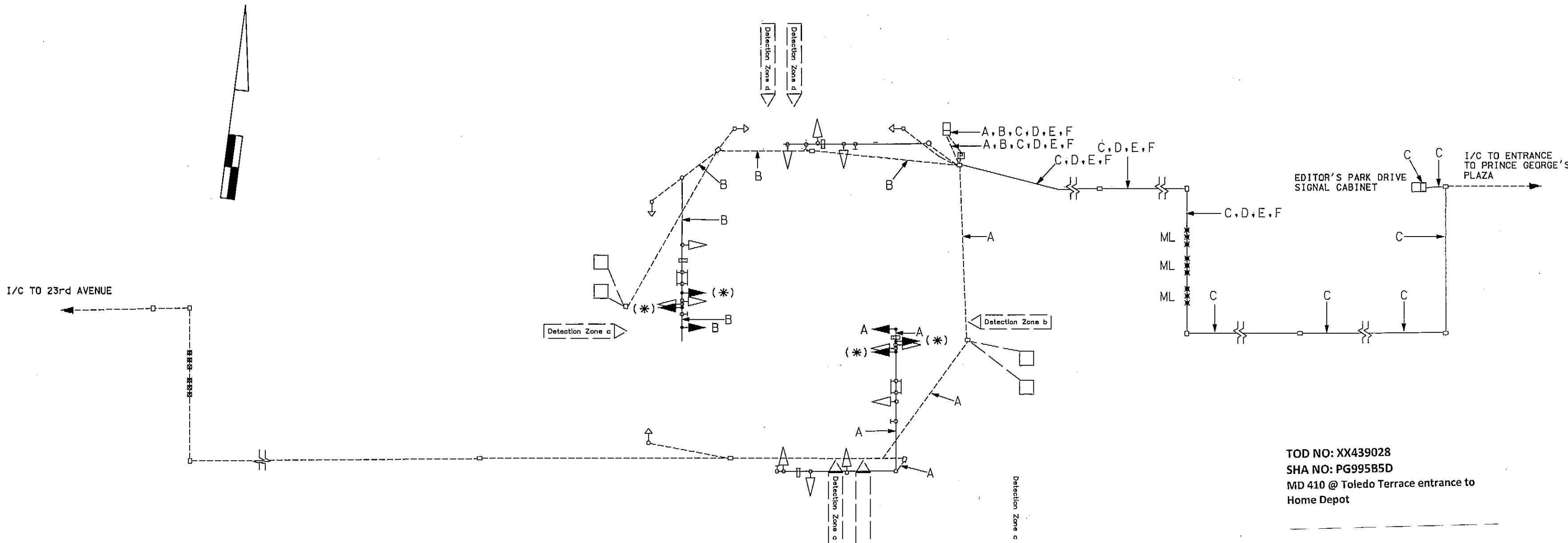
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WIRING DIAGRAM



WIRING KEY

- A,B - PROPOSED ELECTRICAL CABLE 7-CONDUCTOR (NO.14 AWG)
- C - PROPOSED INTERCONNECT 12-PAIR COMMUNICATION CABLE (INSTALL CABLE FROM CABINET TO CABINET)
- D,E,F - MICRO-LOOP PROBE LEAD-IN CABLE
- ML - NON-INVASIVE MICRO-LOOP PROBE
- (*) - USE EXISTING ELECTRICAL CABLE

SHA		STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION	
MD 410 (EAST-WEST HWY) & TOLEDO TERRACE/ENTRANCE TO HOME DEPOT HYATTSVILLE, MARYLAND			
GENERAL INFORMATION SHEET			
SCALE <u>NTS</u> ADVERTISED DATE <u>APR 20, 2013</u> CONTRACT NO. <u>XX4395185</u>			
DESIGNED BY <u>M. KABENGELE</u>		COUNTY <u>PRINCE GEORGE'S</u>	
DRAWN BY <u>M. KABENGELE</u>		LOGMILE <u>16041002.35</u>	
CHECKED BY <u>D. DICKERSON</u>		TIMS NO. <u>K887</u>	
F.A.P. NO. <u>AC-STPG-000A(832)E</u>		TOD NO. <u>-</u>	
TS NO. 278 E		DRAWING TSP -02 OF 02	
		SHEET NO. 2 OF 2	